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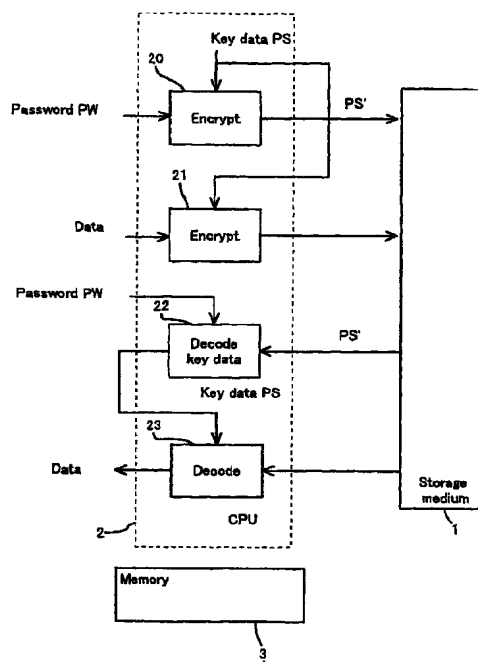
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(54) **Method of and apparatus for protecting data on storage medium and storage medium**

(57) Disclosed are a method and an apparatus for protecting data on a storage medium by encrypting the data to be recorded on the storage medium with a password. This method comprises a step of, generating, for changing key data on each memory unit by one password, the key data, thereafter encrypting the key data with the password and writing the encrypted data to the storage medium, and a step of encrypting the data with the key data and encrypted data to the storage medium. The method further comprises a step of reading the encrypted key data from the storage medium, a step of decoding the encrypted key data with the password, and a step of decoding the data on the storage medium with the decoded key data. The encryption is done by using the key data generated separately from the password, and it is therefore feasible to prevent the password from being analyzed by decoding a cipher text.

**FIG. 1**



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# EUROPEAN SEARCH REPORT

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Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.6)
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A	* column 2, line 65 - column 5, line 45 * ---	2-7,9-14	
X	PATENT ABSTRACTS OF JAPAN vol. 1998, no. 07, 31 March 1998 (1998-03-31) & JP 09 293021 A (INTERNATL BUSINESS MACH CORP &LT;IBM&GT;), 11 November 1997 (1997-11-11)	1,8,15	
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A	US 5 677 952 A (ROGAWAY PHILLIP W ET AL) 14 October 1997 (1997-10-14) * abstract * -----	1,8,15	
			TECHNICAL FIELDS SEARCHED (Int.Cl.6)
			G06F
The present search report has been drawn up for all claims			
Place of search <b>THE HAGUE</b>		Date of completion of the search <b>13 July 2000</b>	Examiner <b>Moens, R</b>
CATEGORY OF CITED DOCUMENTS		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons ..... & : member of the same patent family, corresponding document	
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document			

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**ANNEX TO THE EUROPEAN SEARCH REPORT  
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EP 98 12 1065

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.  
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